FUELS CONSUMED FOR RESIDENTIAL AND COMMERCIAL SPACE HEATING, 1935-51

BY A. T. COUMBE AND I. F. AVERY

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A. T. Coumbe[1] and I. F. Avery[1]

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This compilation of statistics covering competitive fuels consumed for heating of residential and commercial buildings is in response to numerous requests for data of this nature to show the relative changes in the demands for the different fuels in recent years. The figures presented cover the amounts of various fuels and electric energy reported as used for heating dwellings and commercial buildings. However, the totals for gaseous fuels and electricity necessarily include amounts consumed for both cooking and lighting purposes, as these associated household uses could not be readily broken out.

TABLE 1. - Percentage of fuel and power consumption for all residential uses and for commercial space heating, according to physical state at point of combustion

Year	Liquid	Gaseous fuel	Solid fuel	Electricity	Total
1935	9.6	9.4	80.1	0.9	100.0
1936	11.9	9.8	77.4	.9	100.0
1937	14.1	10.3	74.5	1.1	100.0
1938	15.4	11.0	72.4	1.2	100.0
1939	16.5	11.0	71.2	1.3	100.0
1940	18.2	11.4	69.1	1.3	100.0
1941	18.1	11.1	69.5	1.3	100.0
1942	17.2	12.1	69.3	1.4	100.0
1943	15.1	12.1	71.4	1.4	100.0
1944	14.7	12.5	71.3	1.5	100.0
1945	16.1	13.5	68.8	1.6	100.0
1946	19.1	15.4	63.6	1.9	100.0
1947	22.4	17.6	57.9	2.1	100.0
1948	24.2	19.4	54.0	2.4	100.0
1949	23.8	21.1	52.3	2.8	100.0
1950	26.2	22.7	48.2	2.9	100.0
1951	28.2	25.5	43.0	3.3	100.0

SOURCES OF FUEL AND POWER STATISTICS

Liquid fuel: Mineral Market Reports of the Bureau of Mines covering annual sales of fuel oil and kerosine. The fuel oil figures include grades 1 to 6, reported as sold for space heating. Kerosine and grade 1 fuel oil delivered as range oil are also included.

Gaseous fuel: "Gas Facts" published by the Bureau of statistics of the American Gas Association. This source was used as it is believed that the data shown are representative of the actual market

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demand. The figures for natural gas, manufactured gas and mixed gas are quantities reported as sold for residential and commercial uses. Totals include gas consumed for cooking and baking in the smaller commercial establishments as no data are available to permit separation of such portions.

Liquefied petroleum gas: Mineral Market Reports of the Bureau of Mines covering annual sales of this fuel. The totals were reported as sold for domestic and commercial consumption. As with the other gaseous fuel, no attempt was made to adjust for quantities used for cooking.

Solid fuels: Mineral Market Reports of the Bureau of Mines covering bituminous-coal statistics. The figures are for "retail deliveries", which include sales to small industries, however the major portion of these deliveries is used for space heating.

The figures for anthracite, coke, and packaged fuel consumed for space heating were computed by the Anthracite Section of the Bureau of Mines. Those for petroleum coke were estimated as no data concerning sales for space heating were available.

Wood: Reports of the Forest Service of the United States Department of Agriculture. The totals include cord wood and mill waste and are based on 10-year averages for the years 1930-49 and on annual releases for 1950 and 1951.

Electricity: Statistical Bulletin, Year 1951 published by the Edison Electric Institute. The figures cover kilowatt-hour sales for residential or domestic and rural uses. As no data were available to show the amounts of electricity used for the above purposes and produced separately from hydro power and from fuels, estimates of the quantities from each source were made based upon total consumption of each type of energy used at electric generating plants.

FUEL AND ELECTRIC ENERGY CONVERSION FACTORS

Type of fuel	B.t.u. per unit
Anthracite (Pennsylvania)	25,400,000/net ton
Bituminous coal and lignite	26,200,000/net ton
Briquets and packaged fuel	23,000,000/net ton
Coke	26,000,000/net ton
Heating oil	
Distillate grades 1-4	5,824,980/bbl.
Residual grades 5-6	6,322,260/bbl.
Range oil	5,691,000/bbl.
Fuel oil (gas and electric mfg.) average 1/	6,247,660/bbl.
Petroleum, includes crude and products	5,800,000/bbl.
Electric energy	3,412/K.W.H.
Natural gas wet	1,075/cu. ft.
Natural gas dry	1,050/cu. ft.
Petroleum coke	30,120,000/net ton
Liquefied petroleum gas	95,500/gal.

1/ 15% distillate 85% residual.

Note: All petroleum and products in 42 gallon barrels.

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TABLE 2. - Fuel consumption for all residential uses and for commercial space heating, according to physical state at point of combustion

Liquid fuels (thousands of barrels)

Year	Distillate grades 1, 2, 3 and 4	Range oil #1 fuel oil and kerosine	Residual grades 5 and 6	Total
1935	53,797	21,526	23,056	98,379
1936	69,859	27,292	29,398	126,549
1937	81,235	32,259	35,382	148,876
1938	82,388	33,707	35,935	152,030
1939	97,131	37,061	39,101	173,293
1940	115,533	44,692	44,846	205,071
1941	120,908	46,110	46,606	213,624
1942	121,506	44,923	47,483	213,912
1943	112,581	44,097	42,670	199,348
1944	111,729	47,636	40,474	199,839
1945	121,342	51,021	43,874	216,237
1946	139,637	60,564	49,734	249,935
1947	178,359	74,114	56,402	308,875
1948	200,024	84,163	58,639	342,826
1949	190,387	78,523	60,414	329,324
1950	220,947	94,662	72,716	388,325
1951	249,258	102,847	76,164	428,269

TABLE 3. - Percent of total fuel and power consumed

1935	5.2	2.0	2.4	9.6
1936	6.5	2.5	2.9	11.9
1937	7.6	2.9	3.6	14.1
1938	8.2	3.3	3.9	15.4
1939	9.1	3.4	4.0	16.5
1940	10.1	3.8	4.3	18.2
1941	10.1	3.8	4.2	18.1
1942	9.6	3.5	4.1	17.2
1943	8.4	3.2	3.5	15.1
1944	8.1	3.4	3.2	14.7
1945	8.9	3.7	3.5	16.1
1946	10.6	4.4	4.1	19.1
1947	12.8	5.2	4.4	22.4
1948	14.0	5.7	4.5	24.2
1949	13.6	5.5	4.7	23.8
1950	14.7	6.2	5.3	26.2
1951	16.2	6.6	5.4	28.2

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TABLE 4. - Fuel consumption for all residential uses and for commercial space heating, according to physical state at point of combustion

Gaseous fuels (millions of therms)

Year	Natural gas		Mfg. gas including mixed gas		Liquefied petroleum gas	Total
	Residential	Commercial	Residential	Commercial		
1935	2,773.3	903.5	1,671.2	307.6	20.4	5,676.0
1936	3,105.9	1,037.9	1,678.3	330.9	28.7	6,181.7
1937	3,365.4	1,050.0	1,621.9	331.5	39.0	6,407.8
1938	3,356.3	1,043.4	1,599.9	336.2	55.2	6,391.0
1939	3,646.0	1,119.2	1,643.4	349.3	83.6	6,841.5
1940	4,064.3	1,226.2	1,758.8	371.5	128.0	7,548.8
1941	4,112.8	1,269.2	1,749.2	380.3	210.8	7,722.3
1942	4,809.0	1,583.0	1,869.8	406.7	286.1	8,954.6
1943	5,022.1	1,680.0	1,979.3	403.1	324.1	9,408.6
1944	5,290.9	1,792.0	2,021.6	416.3	425.6	9,946.4
1945	5,600.9	2,016.6	2,148.4	471.9	509.3	10,747.1
1946	6,162.7	2,105.6	2,319.6	524.3	724.3	11,836.5
1947	7,513.6	2,509.1	2,572.9	597.6	1,098.8	14,292.0
1948	8,727.6	2,936.0	2,425.3	599.3	1,407.0	16,095.2
1949	9,541.0	3,139.1	2,286.4	585.1	1,554.3	17,105.9
1950	11,561.6	3,496.6	2,277.5	607.2	1,931.5	19,874.4
1951	14,008.7	3,985.9	2,195.8	573.5	2,069.3	22,833.2

TABLE 5. - Percent of total fuels and power consumed

1935	4.6	1.5	2.8	0.5	0	9.4
1936	4.9	1.6	2.7	.5	.1	9.8
1937	5.4	1.7	2.6	.5	.1	10.3
1938	5.8	1.8	2.7	.6	.1	11.0
1939	5.9	1.8	2.6	.6	.1	11.0
1940	6.1	1.8	2.7	.6	.2	11.4
1941	5.9	1.8	2.5	.6	.3	11.1
1942	6.5	2.1	2.5	.6	.4	12.1
1943	6.5	2.2	2.5	.5	.4	12.1
1944	6.6	2.3	2.6	.5	.5	12.5
1945	7.1	2.5	2.7	.6	.6	13.5
1946	8.0	2.7	3.0	.7	1.0	15.4
1947	9.3	3.1	3.2	.7	1.3	17.6
1948	10.5	3.6	2.9	.7	1.7	19.4
1949	11.8	3.9	2.8	.7	1.9	21.1
1950	13.2	4.0	2.6	.7	2.2	22.7
1951	15.7	4.5	2.4	.6	2.3	25.5

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TABLE 6 . - Fuel consumption for all residential uses and for commercial space heating, according to physical state at point of combustion

Solid fuels (wood thousands of cords all other thousands of net tons)

Year	Bituminous and lignite	Anthracite	Coke	Briquets and packaged fuel	Petroleum coke	Wood including mill waste	Total
1935	83,990	42,200	9,426	903	804	60,000	
1936	84,200	43,100	10,021	1,211	752	60,000	
1937	80,076	40,600	8,108	1,123	692	60,000	
1938	68,520	36,800	7,203	1,029	671	60,000	
1939	71,570	40,300	7,638	1,097	853	60,000	
1940	87,700	39,300	8,231	1,313	844	48,500	
1941	97,460	41,500	6,683	1,529	651	48,500	
1942	104,750	44,200	6,062	1,897	418	48,500	
1943	122,764	44,000	4,886	2,205	420	48,500	
1944	124,906	45,500	6,718	2,478	666	48,500	
1945	121,805	38,900	6,776	2,797	737	48,500	
1946	100,586	40,000	5,097	3,032	722	48,500	
1947	99,163	34,800	4,164	3,106	806	48,500	
1948	89,747	36,700	3,612	3,078	934	48,500	
1949	90,299	28,000	2,906	2,263	1,154	48,373	
1950	86,604	29,558	2,560	2,730	1,201	48,739	
1951	76,531	27,844	2,209	2,740	1,152	46,632	

TABLE 7 . - Percent of total fuel and power consumed

1935	36.6	17.8	4.1	0.3	0.4	20.9	80.1
1936	35.1	17.4	4.1	.4	.4	20.0	77.4
1937	33.7	16.5	3.4	.4	.3	20.2	74.5
1938	30.8	16.0	3.2	.4	.4	21.6	72.4
1939	30.3	16.6	3.2	.4	.4	20.3	71.2
1940	34.6	15.1	3.2	.5	.4	15.3	69.1
1941	36.6	15.1	2.5	.5	.3	14.5	69.5
1942	37.3	15.3	2.1	.6	.2	13.8	69.3
1943	41.4	14.4	1.6	.7	.2	13.1	71.4
1944	41.0	14.5	2.2	.7	.2	12.7	71.3
1945	40.2	12.5	2.2	.8	.3	12.8	68.8
1946	34.3	13.2	1.7	.9	.3	13.2	63.6
1947	32.0	10.9	1.3	.9	.3	12.5	57.9
1948	28.3	11.2	1.1	.9	.3	12.2	54.0
1949	29.1	8.8	.9	.6	.4	12.5	52.3
1950	26.0	8.6	.8	.7	.4	11.7	48.2
1951	22.4	7.9	.7	.7	.4	10.9	43.0

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TABLE 8. - Fuel consumption for all residential uses and for commercial space heating, according to physical state at point of combustion

Electricity (thousands of K.W.H.)

Year	Produced from fuel	Hydro	Total
1935	9,072,169	6,116,461	15,188,630
1936	11,009,780	6,120,732	17,130,512
1937	12,195,629	7,165,585	19,361,214
1938	12,797,421	8,151,050	20,948,471
1939	15,127,022	7,837,942	22,964,964
1940	16,865,569	8,442,908	25,308,477
1941	18,993,850	8,481,703	27,475,553
1942	19,584,163	10,242,463	29,826,626
1943	20,927,624	10,689,877	31,617,501
1944	23,412,758	11,226,624	34,639,382
1945	24,248,221	13,604,138	37,852,359
1946	27,895,024	15,106,400	43,001,424
1947	34,472,333	15,249,768	49,722,101
1948	40,589,072	16,715,844	57,304,916
1949	45,322,564	20,200,877	65,523,441
1950	52,733,944	21,696,464	74,430,408
1951	62,494,279	23,008,907	85,503,186

TABLE 9. - Percent of total fuel and power consumed

1935	0.5	0.4	0.9
1936	.6	.3	.9
1937	.7	.4	1.1
1938	.7	.5	1.2
1939	.8	.5	1.3
1940	.9	.4	1.3
1941	.9	.4	1.3
1942	.9	.5	1.4
1943	.9	.5	1.4
1944	1.0	.5	1.5
1945	1.0	.6	1.6
1946	1.2	.7	1.9
1947	1.4	.7	2.1
1948	1.7	.7	2.4
1949	1.9	.9	2.8
1950	2.1	.8	2.9
1951	2.4	.9	3.3

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Figure 1. - Fuel consumption for all residential uses and for commercial space heating, 1935.

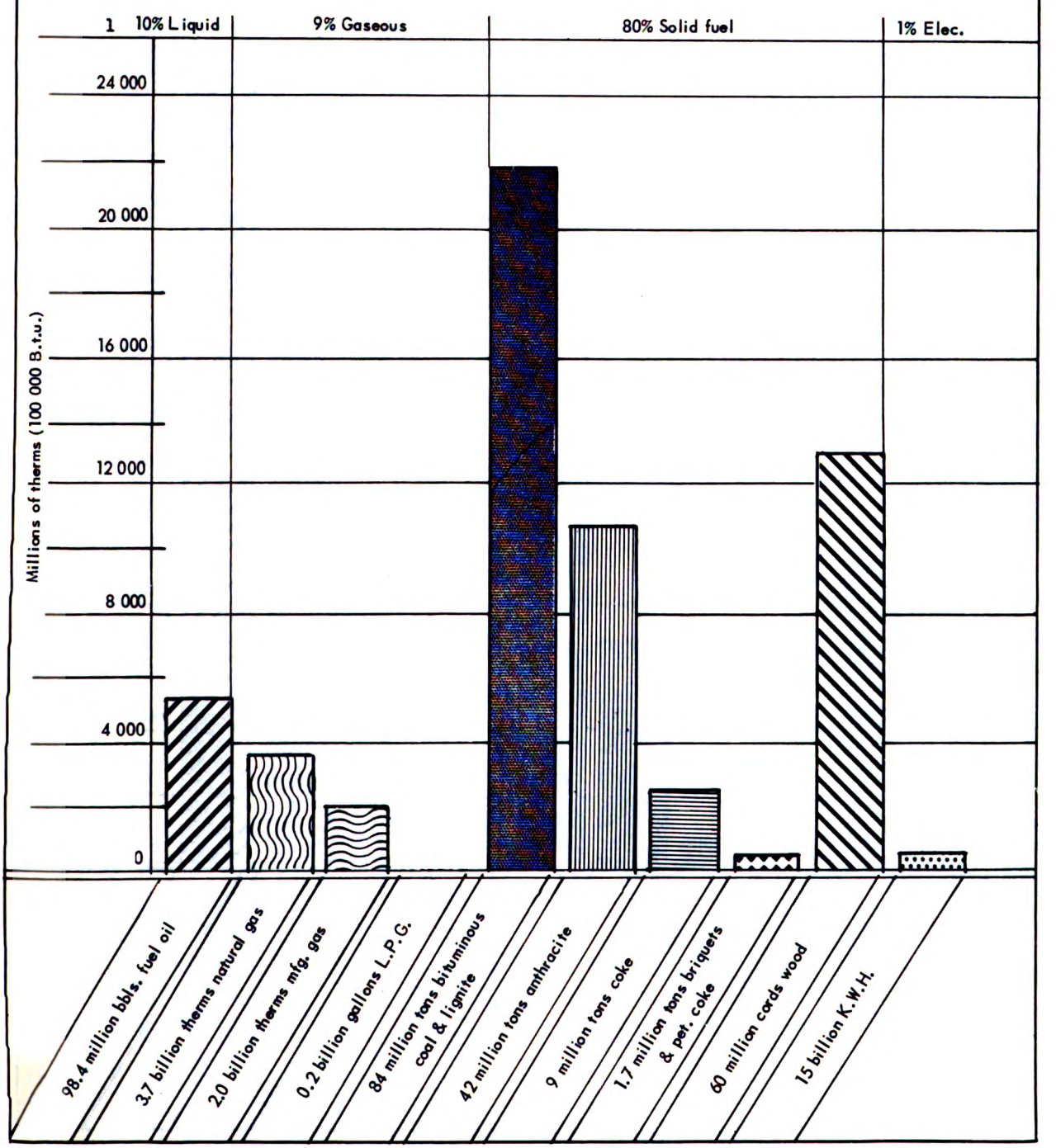

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Figure 2. - Fuel consumption for all residential uses and for commercial space heating, 1951.

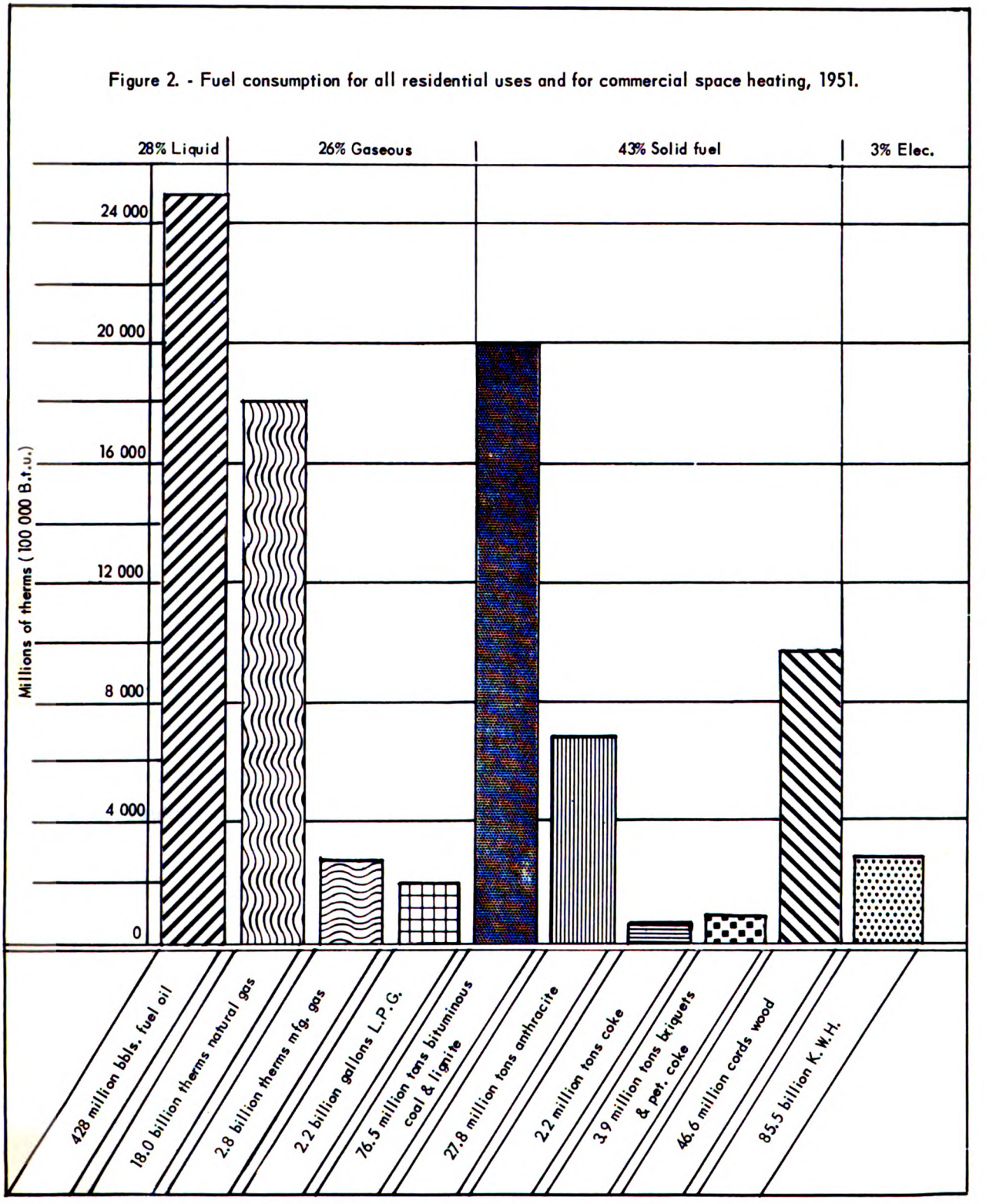

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TABLE 10. - U. S. sales of domestic 1/ oil burners and number in use

Year	Number of burners in use at beginning of year	Net 2/ increase	Average number in use during the year	Average barrels per burner based on sales of distillate fuel oil	Index 1935-39 average	
					Average number of burners in use	Distillate fuel oil sales
1934	914,280	98,590	-	-	-	-
1935	1,012,870	139,255	1,082,500	50.0	75.9	69.9
1936	1,152,125	188,550	1,246,400	56.0	87.4	90.8
1937	1,340,675	189,870	1,435,600	56.6	100.7	105.6
1938	1,530,545	137,200	1,599,100	51.5	112.1	107.1
1939	1,667,745	194,585	1,765,000	55.0	123.8	126.2
1940	1,862,330	272,795	1,998,700	57.8	140.1	150.1
1941	2,135,125	266,935	2,268,600	53.3	159.1	157.1
1942	2,402,060	-15,770	2,394,200	50.8	167.9	157.9
1943	2,386,290	-10,835	2,380,900	47.3	166.9	146.3
1944	2,375,455	16,810	2,383,900	46.9	167.1	145.2
1945	2,392,265	124,790	2,454,700	49.4	172.1	157.7
1946	2,517,055	303,989	2,669,100	52.3	187.1	181.5
1947	2,821,044	829,470	3,235,800	55.1	226.9	231.8
1948	3,650,514	325,259	3,813,100	52.5	267.4	259.9
1949	3,975,773	514,762	4,233,200	45.0	296.8	247.4
1950	4,490,535	681,599	4,831,300	45.7	338.7	287.1
1951	5,172,134	532,422	5,438,300	45.8	381.3	323.9
1952	5,704,556	-	-	-	-	-

1/ Automatic power oil burners used for household heating.

2/ Annual sales less scrapping during the year.

Source: Fuel Oil and Oil Heat for oil burners in use: Average, calculated.

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TABLE 11. - Indicated consumption of mineral fuel in the production of electricity and manufactured gas for all residential uses and for commercial space heating

Coal thousands of net tons, oil thousands of barrels, natural gas millions of cubic feet

	Bituminous coal			Anthracite			Fuel oil			Natural gas
Year	Electric	Mfg. gas 1/	Total	Electric	Mfg. gas	Total	Electric	Mfg. gas	Total	Electric
1935	5,202	4,967	10,169	283	110	393	1,790	10,613	12,403	19,735
1936	6,293	4,703	10,996	311	127	438	2,210	10,824	13,034	24,191
1937	6,998	4,515	11,513	307	155	462	2,254	10,919	13,173	27,568
1938	7,064	4,265	11,329	360	158	518	2,381	12,190	14,571	30,453
1939	8,017	4,207	12,224	402	172	574	3,085	12,913	15,998	33,998
1940	9,162	4,206	13,368	418	181	599	2,906	13,638	16,544	32,057
1941	10,466	4,302	14,768	464	211	675	3,353	13,470	16,823	33,694
1942	10,601	4,525	15,126	446	239	685	2,438	14,265	16,703	37,633
1943	11,209	4,621	15,830	473	267	740	2,608	14,307	16,915	43,781
1944	12,174	4,661	16,835	521	228	749	3,171	15,578	18,749	54,535
1945	12,778	5,130	17,908	534	233	767	3,459	17,767	21,226	55,782
1946	13,934	5,490	19,424	666	287	953	7,009	21,047	28,056	59,240
1947	17,369	5,802	23,171	683	390	1,073	8,790	24,477	33,267	72,372
1948	20,216	5,667	25,883	805	490	1,295	8,657	25,840	34,497	97,054
1949	18,892	4,380	23,272	812	320	1,132	14,918	22,200	37,118	123,777
1950	21,096	4,044	25,140	863	272	1,135	18,025	23,455	41,480	150,312
1951	23,537	4,030	27,567	894	194	1,088	14,771	12,915	27,686	176,460

1/ Net tons of bituminous coal and coke.

Note: All figures were calculated by determining the ratio of the above use to the total energy produced from mineral fuels and applying this ratio to the consumption of mineral fuels in manufactured gas and electricity production.

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TABLE 12. - Total energy consumption 1/ for all residential uses and for commercial space heating
In millions of therms (100,000 B.t.u.)

Year	Bituminous coal and lignite	Pennsylvania anthracite	Coke	Briquets and package fuel	Fuel oil all grades	Natural gas	Liquefied petroleum gas	Petroleum coke	Total energy from mineral fuel	Hydro	Wood including mill waste	Grand total energy
1935	24,669.7	10,818.6	2,450.8	207.7	6,591.3	3,874.2	20.4	242.2	48,874.9	208.7	12,576.0	61,659.6
1936	24,941.4	11,058.7	2,505.5	278.5	8,295.4	4,385.0	28.7	226.5	51,819.7	208.8	12,576.0	64,604.5
1937	23,996.4	10,429.7	2,108.1	258.3	9,627.7	4,691.1	39.0	208.4	51,358.7	244.5	12,576.0	64,179.2
1938	20,920.4	9,478.8	1,872.8	236.7	9,899.6	4,704.2	55.2	202.1	47,369.8	278.1	12,576.0	60,223.9
1939	21,954.0	10,382.0	1,985.9	252.3	11,218.6	5,105.2	83.6	256.9	51,238.5	267.4	12,576.0	64,081.9
1940	26,479.8	10,134.3	2,140.1	302.0	13,132.1	5,611.1	128.0	254.2	58,181.6	288.1	10,165.6	68,635.3
1941	29,403.7	10,687.1	1,737.6	351.7	13,664.6	5,718.9	210.8	196.1	61,970.5	289.4	10,165.6	72,425.5
1942	31,407.5	11,400.8	1,576.1	436.3	13,693.1	6,768.3	286.1	125.9	65,694.1	349.5	10,165.6	76,209.2
1943	36,311.7	11,364.0	1,270.4	507.2	12,821.9	7,139.9	324.1	126.5	69,865.7	364.7	10,165.6	80,396.0
1944	37,136.2	11,747.2	1,746.7	569.9	12,949.5	7,628.3	425.6	200.6	72,404.0	383.1	10,165.6	82,952.7
1945	36,604.8	10,075.4	1,761.8	643.3	14,071.7	8,175.3	532.1	222.0	72,086.4	464.2	10,165.6	82,716.2
1946	31,442.6	10,402.1	1,325.2	697.4	16,477.6	8,860.7	757.7	217.5	70,180.8	515.4	10,165.6	80,861.8
1947	32,051.5	9,111.7	1,082.6	714.4	20,251.5	10,746.4	1,154.4	242.8	75,355.3	520.3	10,165.6	86,041.2
1948	30,295.0	9,650.7	939.1	707.9	22,303.7	12,634.1	1,488.4	281.3	78,300.2	570.3	10,165.6	89,036.1
1949	29,755.6	7,399.5	755.6	520.5	21,696.6	13,917.9	1,640.4	347.6	76,033.7	689.3	10,139.0	86,862.0
1950	29,276.9	7,796.0	665.6	627.9	25,446.1	16,561.3	2,013.7	361.7	82,749.2	740.3	10,215.7	93,705.2
1951	27,273.7	7,371.5	574.3	630.2	26,917.2	19,759.2	2,153.5	347.0	85,026.6	785.1	9,774.1	95,585.8

1/ Includes energy consumed in the production of electricity and manufactured gas.

TABLE 13. - Percent of total mineral fuels

1935	50.5	22.1	5.0	0.4	13.5	7.9	0.1	0.5	100.0
1936	48.1	21.4	5.0	.5	16.0	8.5	.1	.4	100.0
1937	46.7	20.3	4.1	.5	18.8	9.1	.1	.4	100.0
1938	44.2	20.0	4.0	.5	20.9	9.9	.1	.4	100.0
1939	42.8	20.2	3.9	.5	21.9	10.0	.2	.5	100.0
1940	45.5	17.4	3.7	.5	22.6	9.7	.2	.4	100.0
1941	47.5	17.2	2.8	.5	22.1	9.2	.3	.3	100.0
1942	47.8	17.4	2.4	.7	20.8	10.3	.4	.2	100.0
1943	52.0	16.3	1.8	.7	18.3	10.2	.5	.2	100.0
1944	51.3	16.2	2.4	.8	17.9	10.5	.6	.3	100.0
1945	50.8	14.0	2.5	.9	19.5	11.3	.7	.3	100.0
1946	44.8	14.8	1.9	1.0	23.5	12.6	1.1	.3	100.0
1947	42.5	12.1	1.4	1.0	26.9	14.3	1.5	.3	100.0
1948	38.7	12.3	1.2	.9	28.5	16.1	1.9	.4	100.0
1949	39.1	9.7	1.0	.7	28.5	18.3	2.2	.5	100.0
1950	35.4	9.4	.8	.8	30.8	20.0	2.4	.4	100.0
1951	32.1	8.7	.7	.7	31.7	23.2	2.5	.4	100.0

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TABLE 14. - Indicated consumption of mineral fuels for all uses in continental U. S.

Coal thousands of tons, petroleum thousands of barrels, natural gas million cu. ft.

Year	Bituminous coal and lignite	Pennsylvania anthracite	Petroleum	Marketed production of natural gas	Total in millions of therms
1935	356,326	51,000	983,317	1,916,595	183,947
1936	408,293	53,200	1,092,379	2,167,802	207,147
1937	430,777	50,400	1,169,205	2,407,620	219,361
1938	336,281	45,200	1,136,705	2,295,562	190,193
1939	376,098	49,700	1,230,486	2,476,756	209,155
1940	430,910	49,000	1,326,620	2,660,222	230,886
1941	492,115	52,700	1,485,779	2,812,658	258,731
1942	540,050	56,500	1,449,908	3,053,475	272,764
1943	593,797	57,100	1,521,426	3,414,689	295,029
1944	589,599	59,400	1,671,263	3,711,039	306,390
1945	559,567	51,600	1,772,685	3,918,686	304,655
1946	500,386	53,900	1,792,786	4,030,605	292,102
1947	545,891	48,200	1,989,803	4,582,173	319,933
1948	519,909	50,200	2,113,678	5,148,020	326,902
1949	445,538	37,700	2,118,250	5,419,736	307,428
1950	454,202	39,900	2,375,057	6,282,060	334,421
1951	468,934	37,000	2,570,862	7,457,359	361,535

Note: Includes bunker fuel for foreign trade.

TABLE 15. - Percent of energy used and therms per capita
(Millions of therms)

Year	Population in U. S. 1/ thousands	Total energy from mineral fuels U. S.	Total energy used for space heating	Percent of total	Per capita	
					Therms total	Space heating
1935	127,250	183,947	49,875	27.1	1,446	392
1936	128,053	207,147	51,820	25.0	1,618	405
1937	128,825	219,361	51,359	23.4	1,703	399
1938	129,825	190,193	47,370	24.9	1,465	365
1939	130,880	209,155	51,239	24.5	1,598	391
1940	131,936	230,886	58,182	25.2	1,750	441
1941	133,058	258,731	61,971	24.0	1,944	466
1942	133,752	272,764	65,694	24.1	2,040	491
1943	133,791	295,029	69,866	23.7	2,205	522
1944	132,622	306,390	72,404	23.6	2,310	546
1945	132,137	304,655	72,086	23.7	2,306	546
1946	139,893	292,102	70,181	24.0	2,088	502
1947	143,375	319,933	75,355	23.6	2,231	526
1948	146,045	326,902	78,300	24.0	2,238	536
1949	148,558	307,428	76,034	24.7	2,069	512
1950	151,278	334,421	82,749	24.7	2,211	547
1951	153,383	361,535	85,027	23.5	2,357	554

1/ Excludes armed forces outside U. S.

Interior - Bureau of Mines, Pittsburgh, Pa.

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